

Title (en)

PLANT WATER CONTENT SENSOR AND PLANT WATER CONTENT MEASUREMENT METHOD

Title (de)

PFLANZENWASSERGEHALTSENSOR UND VERFAHREN ZUR MESSUNG DES PFLANZENWASSERGEHALTS

Title (fr)

CAPTEUR DE TENEUR EN EAU D'UNE PLANTE ET PROCÉDÉ DE MESURE DE TENEUR EN EAU D'UNE PLANTE

Publication

**EP 4197314 A4 20240228 (EN)**

Application

**EP 21858155 A 20210802**

Priority

- JP 2020138022 A 20200818
- JP 2021028568 W 20210802

Abstract (en)

[origin: EP4197314A1] Provided are a plant water content sensor and a plant water content measuring method configured to measure a water content of a plant in a non-destructive manner. A plant water content sensor 1 includes a water content probe 20, which includes a readout electrode pair 21 made of a pair of electrodes 22, 22 disposed at a predetermined interval thereof, a water sensitive film 23, which is bridged across the pair of electrodes 22, 22, and a supporting portion 10, which supports the water content probe 20. A water content of the plant is measurable by sticking the water content probe 20 into the plant and reading out impedance or an electrostatic capacity from the readout electrode pair 21.

IPC 8 full level

**G01N 27/48** (2006.01); **G01N 33/00** (2006.01)

CPC (source: EP US)

**G01N 27/048** (2013.01 - EP US); **G01N 33/0098** (2013.01 - EP); **A01G 7/00** (2013.01 - EP); **G01N 27/046** (2013.01 - EP); **G01N 27/223** (2013.01 - EP)

Citation (search report)

- [YA] EP 3104135 A1 20161214 - NAT UNIV CORP KAGAWA UNIV [JP]
- [XAYI] US 7552635 B2 20090630 - CHANG CHIN-HSIUNG [TW], et al
- [Y] WO 0142775 A1 20010614 - LG ELECTRONICS INC [KR], et al
- [Y] KR 101495666 B1 20150226
- See also references of WO 2022039007A1

Designated contracting state (EPC)

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**EP 21858155 A 20210802**; CN 202180055538 A 20210802; JP 2021028568 W 20210802; JP 2022543350 A 20210802; US 202118022127 A 20210802